

WHAT IS CLAIMED IS:

1. An electrolytic cell for ozone generation, comprising:

two grid electrodes immersed in an electrolyte, the two grid electrodes being powered by a DC power source continuously or intermittently, wherein the electrolyte comprises at least one neutral salt;

a first electrode of the two grid electrodes is an anode, and

a second electrode of the two grid electrodes is a cathode.
2. An electrolytic cell for ozone generation of claim 1, wherein the anode is coated with a layer of β -PbO₂.
3. An electrolytic cell for ozone generation of claim 1, wherein a material of the anode comprises titanium coated with another material selected from the group consisting of platinum, iridium oxide, and tin oxide.
4. An electrolytic cell for ozone generation of claim 3, wherein the anode is further coated with a layer of β -PbO₂.
5. An electrolytic cell for ozone generation of claim 1, wherein a material of the cathode comprises titanium coated with another material selected from the group consisting of platinum, iridium oxide, and tin oxide.
6. An electrolytic cell for ozone generation of claim 1, wherein the neutral salt comprises at least one salt selected from the group consisting of NaCl, KCl, NaNO₃, and KNO₃.
7. An electrolytic cell for ozone generation of claim 1, wherein the DC power source comprises a battery.
8. An electrolytic cell for ozone generation of claim 7, wherein the battery is selected from a group consisting of dry battery, lead-acid battery, nickel-cadmium

battery, nickel-hydrogen battery, lithium ion battery, lithium polymer battery, metal-air battery, fuel cell, and solar cell.

9. An electrolytic cell for ozone generation of claim 1, wherein the DC power source comprises a circuitry consisting of a battery, a supercapacitor, and an oscillator.

10. An electrolytic cell for ozone generation of claim 9, wherein the battery is selected from a group consisting of dry battery, lead-acid battery, nickel-cadmium battery, nickel-hydrogen battery, lithium ion battery, lithium polymer battery, metal-air battery, fuel cell, and solar cell.

11. An electrolytic cell for ozone generation of claim 9, wherein the oscillator comprises a self-excitation multi-level oscillator.

12. An electrolytic cell for ozone generation of claim 9, wherein a yield of ozone generation is controlled by varying a duty ratio of the circuitry of the DC power source.

13. An electrolytic cell for ozone generation of claim 1, further comprising a bubbler for supplying bubbles into the electrolyte.

14. An electrolytic cell for ozone generation of claim 1, which has a temperature including room temperature.